	Application No.	Applicant(s)		
Notice of Allowability	10/521.723	SHI ET AL.	RHI ET AI	
	Examiner	Art Unit		
	Karen A. Canella	1643		
— The MAILING DATE of this communication app. All claims being allowable, PROSECUTION ON THE MERITS I herewith (or previously mailed), a Notice of Allowance (PTOL-8 NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT of the Office or upon petition by the applicant. See 37 CFR 1.3	S (OR REMAINS) CLOSED in 5) or other appropriate commun RIGHTS. This application is su	this application. If not include nication will be mailed in due	led course, THIS	
1. A This communication is responsive to the amendment file.	d 10/1/09 and the submission o	of 11/20/09.		
 The allowed claim(s) is/are 6-15, renumbered as 1-10, re 	esepctively.			
 Acknowledgment is made of a claim for foreign priority: a) ☐ All b) ☐ Some* c) ☐ None of the: 	under 35 U.S.C. § 119(a)-(d) o	r (f).		
 Certified copies of the priority documents has 	ve been received.			
Certified copies of the priority documents had	ve been received in Application	1 No		
Copies of the certified copies of the priority of	locuments have been received	in this national stage applica	ation from the	
International Bureau (PCT Rule 17.2(a)).				
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE noted below. Failure to timely comply will result in ABANDON THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the re	quirements	
 A SUBSTITUTE OATH OR DECLARATION must be sub INFORMAL PATENT APPLICATION (PTO-152) which gi 			NOTICE OF	
 CORRECTED DRAWINGS (as "replacement sheets") m 	ust be submitted.			
(a) ☐ including changes required by the Notice of Draftspe		(PTO-948) attached		
1) hereto or 2) to Paper No./Mail Date	_			
(b) including changes required by the attached Examine Paper No./Mail Date	r's Amendment / Comment or	in the Office action of		
Identifying Indicia such as the application number (see 37 CFR each sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the the header according to 37 CFF	e drawings in the front (not th R 1.121(d).	e back) of	
DEPOSIT OF and/or INFORMATION about the department attached Examiner's comment regarding REQUIREMEN			Note the	
Alles bereatted				
Attachment(s) 1. Notice of References Cited (PTO-892)	5. ☐ Notice of Info	ormal Patent Application		
 Notice of Draftperson's Patent Drawing Review (PTO-948 		mmary (PTO-413), Mail Date 20091009.		
Information Disclosure Statements (PTO/SB/08), Paper No /Mail Date		Amendment/Comment		
Faper No./Mail Date F	_	Statement of Reasons for All	owance	
	9. 🗆 Other			
/Karen A Canella/ Primary Examiner, Art Unit 1643				

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EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with N. Nicole Endejann on December 16, 2009.

The application has been amended as follows:

In the specification:

Paragraph [0001] has been replaced with the following:

This application is a 371 of PCT/US03/22071, filed July 15, 2003 which claims benefit of 60/395,918, filed July 15, 2002, the entirety of which is incorporated by reference herein.

Paragraph [0002] has been replaced with the following:

This application is a CIP of PCT/US02/17342, filed May 31, 2002, which claims benefit of 60/294,682, filed May 31, 2001 and 60/345,630, filed January 3, 2002. This application is a CIP of 09/965,967, filed September 28, 2001, which claims benefit of 60/236,574, filed September 29, 2000, and 60/256,830, filed December 20, 2000. The entire contents of each of the aforementioned applications are incorporated by reference herein.

In the claims:

Claim 6 has been replaced with the following:

A compound of formula I

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wherein:

R1 is methyl, ethyl, n-propyl, isopropyl, or ethenyl;

R3s is H or methyl;

 $\label{eq:Xis-Ch} X \text{ is -Ch-, -S-, CH-, -, or -NH-, and J is -CH- or -N-, provided that when J is -N-, } X \text{ is -CH-- or -NH-;}$

Y is H, methyl, ethyl, n-propyl, or isopropyl;

R³ is:

Mis:

 R^3 , R^4 and R^5 are each independently H, methyl, ethyl, n-propyl, isopropyl, halo, cyano, -(CH₂)_p-C(=O)OH, -(CH₂)_p-C(=O)O-alkyl, or -(CH₂)_p-C(=O)NH₂;

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n and p are each independently the integer 0, 1, 2, or 3, and the sum of n plus p is the integer 2 or 3;

provided that at least one of R^3 , R^4 and R^5 is H, methyl, ethyl, n-propyl, isopropyl, halo or cyano;

provided that when one or more of R^3 and R^5 is isopropyl, R^4 is other than isopropyl:

 $provided \ that \ when \ R^4 \ is \ isopropyl, \ R^3 \ and \ R^5 \ are each \ independently \\ other \ than \ isopropyl;$

or a pharmaceutically acceptable salt thereof, wherein said compound binds to an Inhibitor of Apoptosis Protein (IAP).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karen A. Canella whose telephone number is (571)272-0828. The examiner can normally be reached on 10-6:30 M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Larry Helms can be reached on (571)272-0832. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Primary Examiner, Art Unit 1643